Appl. No. 09/863,528 Amdt. dated Friday, April 02, 2004 Reply to Notice of February 3, 2004

## Amendments to the Specification:

Please replace paragraph [0068] with the following amended paragraph:

[0068] Some of the DNA motifs plus their core consensus sequences and basic properties that are preferred for use in the present invention are summarized in TABLE 1 and described briefly below.

e Consensus	Activating agents	Transcription factors	Normal genes
sequence			up-regulated
	Dilama a diamina	ATT	C-4-1
		•	Cytochromes P450 1
(SEQ ID NO:1)	-	ARN1 neterodimer	(CYP1A, 1B), Quinone
			oxidoreductase,
			Glutathione transferase,
			UDP glucuronosyl-
			transferases
			Heme oxygenase,
(SEQ ID NO:1)	•		Glutamate-cysteine ligase,
	•		Quinone oxidoreductase,
			Glutathione transferase,
	arsenicals, diphenols,	Small Maf (?),	UDP glucuronosyl-
	quinones, azo dyes)	ARE-BP (?)	transferase
TGCRCNCGG	Heavy metals	MTF-1	Metallothioneins,
(SEQ ID NO:1)			Glutamate-cysteine ligase
GGTCANNNTGAC	Estrogen,	Estrogen receptor	Estrogen-responsive finger
С	Pharmaceuticals,	homodimer	protein,
(SEQ ID NO:1)	Pesticides, Chlorinated		Vitellogenin,
	aromatic hydrocarbons,		Glucose-6-phosphatase,
	Phytoestrogens		Lactoferrin
RGGTCA(N <sub>0-8</sub> )	Retinoic acid and other	Retinoic acid receptor	Hoxal,
RGGTCA	retinoids natural and	homodimers,	Retinoic acid receptor,
(SEQ ID NO:1)	pharmaceutical	heterodimers with	Cellular retinoic acid
		Retinoid X receptor	binding protein II,
		<u>-</u>	Fetoprotein
GGGGTCAAAGG	Retinoic acid and other	Retinoid X receptor	Apolipoprotein A1
TCAGGGGTCATG	retinoids natural and	homodimers	
GGGTCA	pharmaceutical		
(SEQ ID NO:1)	·		
	sequence 5'-3' TWGCGTG (SEQ ID NO:1)  RTGACNNNGC (SEQ ID NO:1)  TGCRCNCGG (SEQ ID NO:1)  GGTCANNNTGAC C (SEQ ID NO:1)  RGGTCA(N <sub>0-8</sub> ) RGGTCA (SEQ ID NO:1)  GGGGTCAAAGG TCAGGGGTCATG GGGTCA	sequence 5'-3'  TWGCGTG (SEQ ID NO:1)  Bibenzo-p-dioxins, Dibenzofurans, Planar polychlorinated biphenyls and polycyclic aromatic hydrocarbons  Planar aromatic hydrocarbons, Potent electrophiles (heavy metals, arsenicals, diphenols, quinones, azo dyes)  TGCRCNCGG (SEQ ID NO:1)  GGTCANNNTGAC C (SEQ ID NO:1)  GGTCANNNTGAC C (SEQ ID NO:1)  GGTCANNNTGAC C Restrogen, Pharmaceuticals, Pesticides, Chlorinated aromatic hydrocarbons, Phytoestrogens  RGGTCA (SEQ ID NO:1)  RGGTCA  REtinoic acid and other retinoids natural and pharmaceutical  GGGGTCAAAGG TCAGGGGTCATG GGGTCA  Retinoic acid and other retinoids natural and pharmaceutical	TWGCGTG (SEQ ID NO:1)  Bright Sequence (SEQ ID NO:1)  TWGCGTG (SEQ ID NO:1)  RTGACNNGC (SEQ ID NO:1)  RTGACNNGC (SEQ ID NO:1)  RTGACNNGC (SEQ ID NO:1)  Potent electrophiles (heavy metals, arsenicals, diphenols, quinones, azo dyes)  TGCRCNCGG (SEQ ID NO:1)  GGTCANNNTGAC  C (SEQ ID NO:1)  GGTCANNNTGAC  C RESTOGEN, Pesticides, Chlorinated aromatic hydrocarbons, Phytoestrogens  RGGTCA(N <sub>0-8</sub> ) RGGTCA (SEQ ID NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RGGTCA(NO:1)  RESTOGEN, Pharmaceuticals, Pesticides, Chlorinated aromatic hydrocarbons, Phytoestrogens  Retinoic acid and other retinoids natural and pharmaceutical  Retinoid X receptor homodimers  Retinoid X receptor